



# MIRACHEM INDUSTRIES

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TECHNICAL LITERATURE

EMCOZYME – GEM

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**Emcozyme – GEM** is a multi component neutral enzyme solution providing combined Biopolishing and bleach cleaning in one step.





## Salient Features:

- New innovation from Mirachem Industries is a multi component enzyme solution providing combined biopolishing and bleach clean up in one step.
- Optimization of processing time and cost.
- Reduces water consumption effluent volumes and saves energy.
- Less weight and strength loss.
- Excellent batch to batch reproducibility.





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### Properties:

Appearance	: Amber Liquid
Chemical Nature	: Multi component neutral enzyme
Solubility	: Soluble in cold water.
pH ( 2% Solution )	: $5.0 \pm 1.0$
Stability	: Resist to hard water
Storage Stability	: Stable for 3 months (When stored in a cool & dry place)

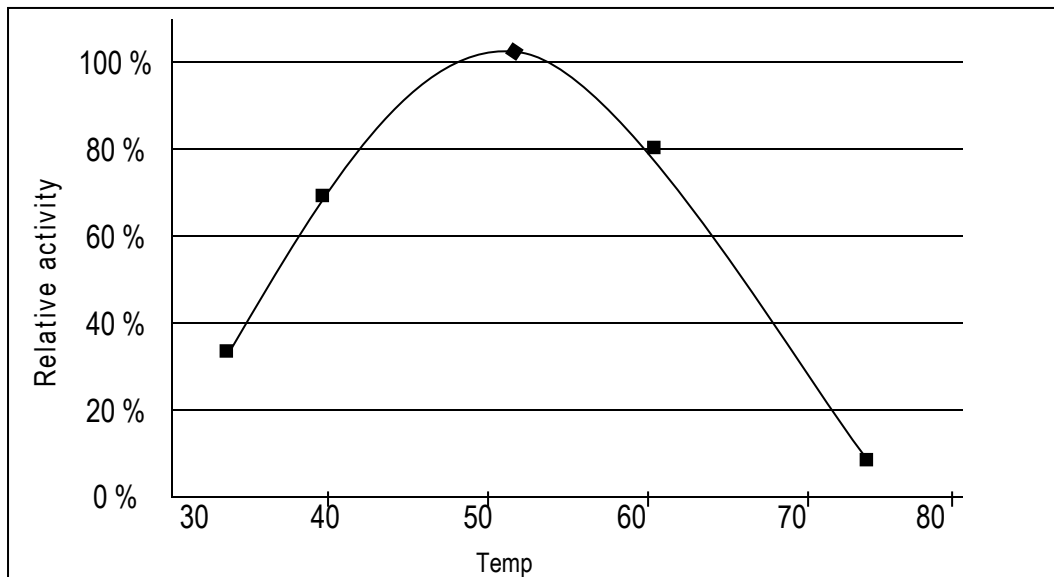




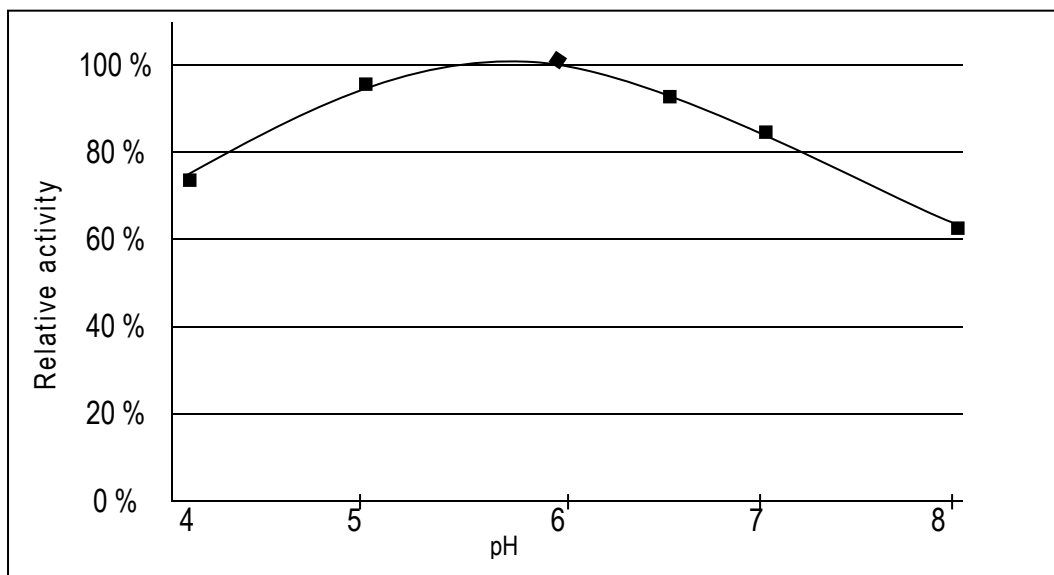
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### Temperature curve for Emcozyme – GEM



### pH curve for Emcozyme – GEM

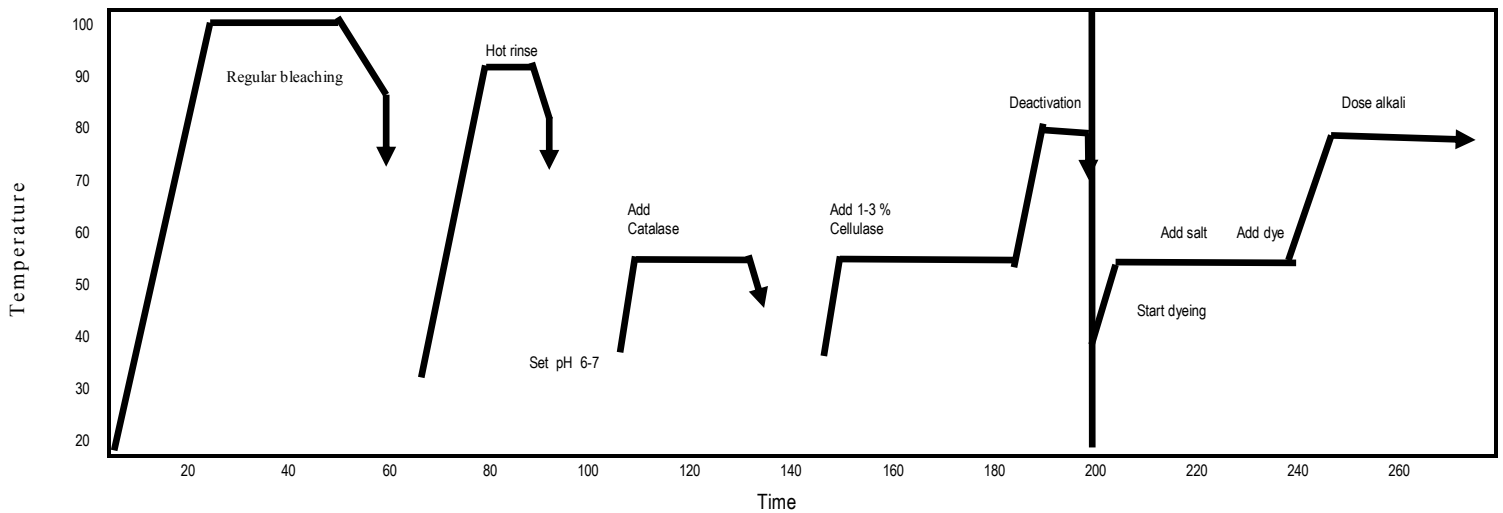




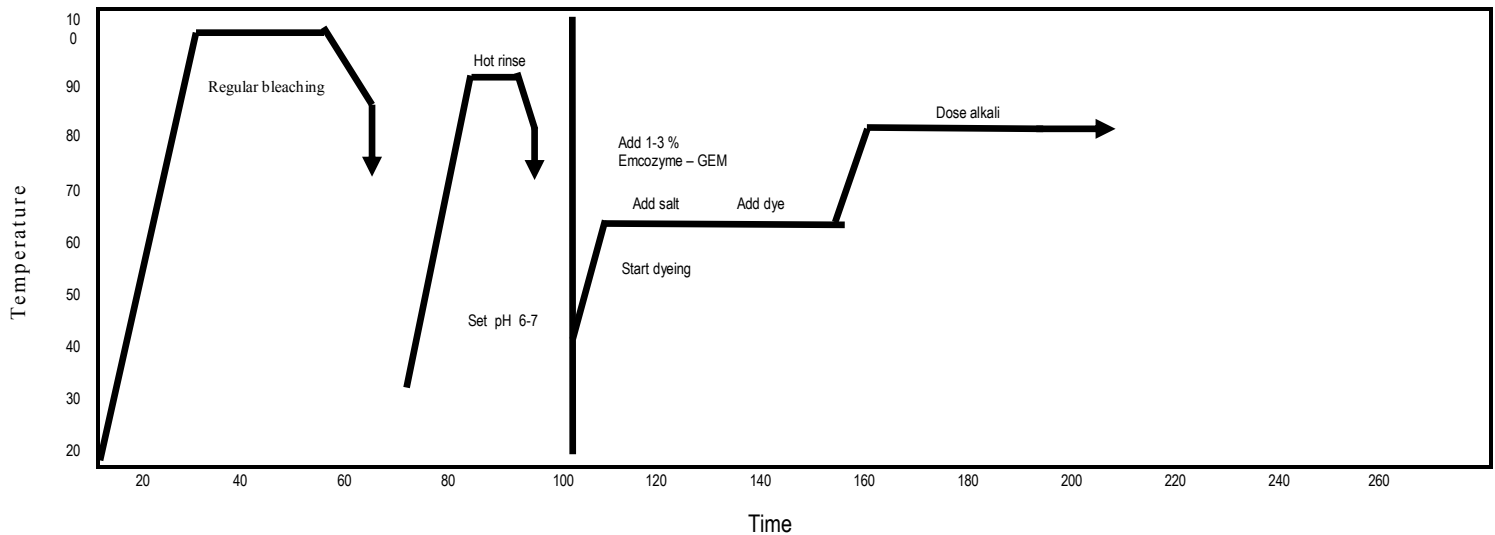
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### Processing profile when using a 2-step process with catalase and cellulose – total time : 210 minutes.



### Processing profile when using Emcozyme – GEM together with dyeing – total time : 110 minutes.





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### Method of Application : --

#### **For 100% Cotton and Cotton blends.**

Fabric	→	Cotton and Cotton blends.
M/c.	→	Jets / High mechanical action equipments.
MLR	→	1:4 – 1:10
pH	→	5.0 – 8.0
Temp.	→	50 – 55 °C
Dosage	→	1.0 – 3.0 %
Duration	→	30 – 60 mins.
Inactivation	→	pH > 10 or 80 °C





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### General safety instructions:

General safety rules for handling chemicals should be observed in storage, handling and use. The product should not be swallowed. For further information, please consult existing safety data sheet.

#### Note :

The data contained in this communication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor.

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### Contact Information:

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